



SYLLABUS

OF

PG DIPLOMA

Interior Design

SEMESTER-I

1. Drawing Skills for Interior Designing

Objective

Drawing is one of the most important skills required for an interior designer to create and communicate design effectively. This subject emphasizes the development of close observation skills and composition as students experience the fundamentals of drawing line, shape, light and reflection, shade and shadow, and perspective as related to interior subjects and formats.

Students learn to effectively communicate ideas through quick sketching visual formats. Instruction includes a wide variety of approaches to sketching techniques, working from simple to complex subject matter including still lifes, interiors and the human form.

Rendering Techniques exposes students to different media and teaches them to accurately represent various subject matter in complex illustrations. The class places heavy emphasis on developing close observation skills, translating observations into a loose rendering style and a bold, creative approach to mixed media rendering styles.

Detailed Contents

a) Sketching Techniques

An introduction to the basic techniques of representative drawings using pencil and markers. Students sketch and critique still life settings in class and exterior spaces on field trips. Emphasis is placed on students' ability to produce representational drawings within a short time frame.

- Basics of sketching
- Free hand sketching of various objects.
- Sketching of furniture and architecture.
- Free hand symbolic presentation of human figures, trees, vehicles etc

b) Drafting Techniques

An introduction to basic architectural drawing used in the development of floor plans, elevations, sections and details. The student will gain competency in the use of drafting tools, equipment and related materials.

- Use of instruments
- *Basic geometry*: Simple drafting of measured objects and 2 dimensional geometrical shapes
- *Scale*: feet inches and metric.
- *Orthographic projections*: definitions and necessity of making these projections.
- *Sections*: difference between elevations and sections, necessity of making

- sections.
- *Metric Views*: isometric, axonometric and oblique views



- Physical measurements
- Drawing Symbols
- Sectioning of solids, in different planes
- *Lettering*: Free hand single stroke lettering in pencil. Free hand lettering in pen and brush (knowledge of various rapidographic points)

c) **Perspective and Presentation Techniques**

An introduction to quick sketch and perspective techniques; this course focuses on the fundamentals of developing volume, depth, and three-dimension in a two-dimensional drawing.

- Terminology of perspective drafting and drawing, viz planes, vanishing points, cone of vision, one point and two point.
- Simple exercises on one point and two point perspective of three-dimensional geometrical shapes
- Rendering mediums: pencils, colour pencils, pastels, pen and ink, water and poster colours, mixed media etc.
- Rendering techniques: shading, hatching, reverse shading etc.
- Exercises for all the mediums and techniques

Fundamental concepts of representative drawing, sketching, and mechanical perspective will be reviewed. Presentation drawings, using coloured markers and pencil and sample boards for portfolio use, will be developed.

Outcome

At the end of the year students should be able to sketch and draft with reasonable speed and precision. They should be able to draw, draft and render their drawings, using a diverse array of media, in order to comprehensively pre-create reality!

Resources

- Engineering Drawing by N.D Bhatt
- Rendering in Pen and Ink by Robert W. Gill
- Interior Design: Illustrated by Frances D.K Ching
- Drawing: A Creative Process – Francis D K Ching
- Graphic Thinking for Architects and Designers

2. Foundation Design and Residential Design Studio

Objective

The aim of this course is to make the students understand the basic idea of design so that they can develop and hone their skills accordingly. This studio introduces students to basic design principles, design theory and concept development. Emphasis will be placed on design process, problem solving, spatial organization, and universal design awareness.

- To gain a broad foundation of design fundamentals.
- To apply design fundamentals to develop an aesthetic and functional residential living space.
- To learn by listening to and interviewing people in the home and community.
- To interpret floor plans by applying knowledge of numbers and scale and understanding their interrelationships.
- To integrate classroom learning with work-related learning.

Detailed Contents

a. Elements and Principles of design

An introduction to the vocabulary and basic concepts of design:

- The Elements: point, line, shape, form, space, etc.
- The Principles: balance, rhythm, repetition, proportion, unity etc.
- Using the elements and principles to make good designs and composition.

Exercises to develop creativity, mental and manual skills to cope with design problems.

b. Colour & its Applications

The physical and psychological effects of colour will be explored. Skill building in the application of colour, light, and related design principles to the man-made environment will be emphasized.

- Terminology: Hue, tints and shades, value, intensity chrome
- Theories of colour, colour circles
- Colour schemes
- Colours wheel showing primary, secondary, intermediate and tertiary colours
- Colour harmony, colour contrast in relation to interior planning
- Psychological aspects of colour: warm, cool
- Advancing, receding, neutral – their application in interior
- Colour, pattern and texture – their relationship in interiors
- Guidelines for various interiors

c. Design Process

An introductory course in the basic principles of design. Study of the progression from inspiration to execution in the design process. Analysis of the techniques used to

resolve aesthetic relationships with two- and three-dimensional objects. Students will learn to appreciate design and understand what makes a good design.

d. Residential Design Concepts

Study of residential space planning and utilization of interior space as applied to functional and aesthetic requirements. Emphasis on schematic and quick presentation work on both plans and elevations. Application of anthropometric and ergonomic principles in space planning.

- Understanding the principles of Good Design
- Finding and Defining a Style
- Design Guidelines for various rooms
- Client Profiling for residential projects
- Design Project

e. Kitchen and Bath Design

A detailed course covering the process of design for kitchens and baths; this course explores kitchen layouts, finish materials, appliance specifications, mechanical requirements, and the client/contractor relationship. Research through field trips to sources for all component parts of a kitchen and bath project: hardware, appliances, finishing materials, etc.

- To understand the types and requirements of a residential bathroom.
- Types of residential bathrooms (powder room, guest, family, master and kids' bath).
- List of requirements of a residential bathroom: bathing area, shower, washbasin, W.C, bidet, storage etc.
- Design guidelines for a private bathroom: user profile, location, size, ventilation, lighting, materials, bathroom fittings and accessories, etc.
- To understand the types and requirements of a residential kitchen.
- Types of residential kitchens based on shape: L, U, and I shaped, corridor kitchen, island kitchen, etc.
- List of requirements of a residential kitchen: cooking area, preparation area, sink, fridge, storage, working triangle etc.
- Design guidelines for a private bathroom: location/relation to other areas in the house, size, ventilation, lighting, materials, fittings and accessories, etc.
- Bathroom and Kitchen Design Project.

Outcome

By the completion of this subject students will have a very clear concept of what constitutes a good design, the elements of design and how they are used in a composition based on the principles. The theory of colour and its usage in interiors will also be understood by the students.

Other than this, the students would be well versed in designing of all types of residential interiors. They should demonstrate the ability to design a residential space based on the design process.

Resources

- Colour Harmony 1&2
- Rendering in Pen and Ink by Robert W. Gill
- Interior Design: Illustrated by Francis D.K Ching
- Time Saver Standards for Interior Design and Space Planning.
- Time Savers Standards For Buildings Types



3. Evolution of Interior Design and Furniture

Objective

The course aims to inculcate an awareness and appreciation among the students of the evolution of interior design and furniture, their growth and development through the ages.

This would be a theory-based course and would focus on the various components that students would study and apply in their creative efforts. Stress is to be given to the following areas of study:

- Interior spaces – reflection of social and technological change
- Interior Accessories – fabric and other materials used.
- Furniture Design – material and techniques used.
- Decoration and ornamentation – of spaces, and furniture

Detailed Contents

This is a survey of the historical styles of architecture, furniture and interiors from Egypt through the early nineteenth century to contemporary. The course is designed to educate the student in the concepts and terminology related to historical styles.

- Understanding the importance of history of interior design and architecture and its relevance in the design process.
- Study the characteristics of the architecture and furniture of the following historical periods:
 - Ancient Period: China, Egypt
 - Classical Period: Greek and Roman
 - Gothic and Renaissance periods: Italian, French and English
 - English classical periods: English Baroque, The Queen Anne Period, The Georgian Periods, The Neoclassical Periods
 - Industrial Revolution and Modernist Architecture Period

Outcome

After studying this subject the students should have a good perception of the various historical periods. Students should be able to identify the characteristics of the motifs, furniture and decorative finishes used during these periods.

Resources

- History of Furniture by Sir Banister Fletcher
- The Great Ages of World Architecture by G.K Hiraskar
- <http://www.maltwood.uvic.ca/hoft/timeline.html>

4. Interior Products and Materials

Objective

Students will study the visual qualities, technical characteristics, and applications of the common materials and finishes used in interior installations. These materials will include floor coverings, wall coverings, textiles, ceiling and sustainable materials.

- To examine and evaluate materials and products used in interior design to meet human needs and provide for personal expression in a living space.
- To make informed consumer decisions when selecting materials and equipment for interior development.
- To use a wide range of learning experiences to develop knowledge of design application.
- To strengthen consumer knowledge and understanding of accessories when making decisions in the marketplace.

Detailed Contents

Students are introduced to the appropriate use of textiles, decorative accessories, and surface materials such as glass, wood, metal, and natural stone in the interior environment

a. Interior Materials

Students will be introduced to the various materials used in interiors such as;

- **Wall Coverings:** the importance of wall treatment in furnishing complete décor and the detailed study of materials available for this purpose, the advantages and disadvantages of each viz. the cost, durability and appearance.
 - **Paints:** types, preparation of surfaces, finishes
 - **Wall paper:** types, patterns, application, surface preparation
 - **Fabric and Vinyl** covering:
- **Floor and floor coverings:** the importance of floor treatment in furnishing complete décor and the detailed study of materials available for this purpose, the advantages and disadvantages of each viz. the cost, durability and appearance.
 - **Tiles:** types, sizes, availability
 - **Stone:** various types available, their properties and usage in different types of interiors.
 - **Carpets and rugs:**
 - a) Importance of carpets and rugs in interior décor. Selecting, installing and maintaining carpets.
 - b) Oriental Carpets: various types, places of manufacture, traditional motifs and fibres used, suitability and usage.
 - **Resilient Floor Coverings:** other forms of floor coverings such as PVC and vinyl, cork, rubber etc. Their importance and selection for decoration.
- **Wood and Wood Products:** Types of wood, availability, cost, laminates. Various types of wood products – ply, veneers, board, laminated boards, etc.

- **Textiles and Fabrics in Interiors:** Fabric Construction and Fibres: Fabric Construction and Fibre. Animal Fibres: wool, silk, mohair. Vegetable Fibres: cotton, jute. Man-Made Fibres: acrylic, rayon, viscose, polyester, nylon, polythene.
- **Window Treatments: History, Fabric, Covering a Window, Selection criteria,** Types of Window Coverings, Window Treatment Hardware
- **Upholstery Fabrics and Cushioning Materials:** Types available, Choosing materials, styles, patterns
- **Glass:** Properties, Applications in Interiors, Sizes, Costs, Fixing Details

b. Interior Accessorizing

A study of accessories in interior design, including residential, office, hospitality, and retail application. Selection and arrangement of accessories to harmonize with the overall decorating plan, to brighten up rooms and to create the desired effect of the owner in making the room look bigger or smaller. Types of accessories like pictures, sculpture, mirror, Wall clocks, shelves, lamps, table ornaments, bed spreads, sofa backs etc

c. Design Trends

An introduction to current trends in interior design and an understanding of how trends are identified.

Outcome

Upon completion, students should be able to recognize and use correct terminology, select appropriate materials for interior surfaces, and choose accessories based on the overall décor scheme of a space. Along with this students should also be able to predict and use design trends while deciding on the materials to be used in an interior space.

Resources

- Advances in building material and construction by Mohan Rai and MP Jaising; Published by Central Building Research Institute, Roorkee
- Civil Engineering Materials; Technical Teachers' Training Institute, Chandigarh pub: Tata McGraw-Hill Publishing Company, New Delhi
- Engineering Materials by Rajput

5. Building Construction

Objective

This course introduces the student to residential and commercial building construction methods and terminology and structures. The construction techniques are directly related with interior design works for example knowledge of brickwork is essential for the developing competence of decorative brickwork, decorative tiling, dado in brickwork etc.

This course introduces the student to types, processes and principles of construction involved in the building of a structure. How to design doors, windows, partitions, panelling etc, and their application, detailed drawing and practical work are some of the topics covered in this course.

Detailed Contents

The following topics will be covered in this subject:

1. **Building Construction:** study of the various structural parts of a building,
 - a. **Walls:** purpose and classification – partition and load bearing walls.
 - i. Brick Masonry – terms and classification, types of bats and closers, brick bonds English and Flemish bonds, Decorative brick work (wall elevations)
 - b. **Openings:** Arches, lintels, doors and windows; types and terms
 - i. Types of arches and lintels
 - ii. Types of doors and terms: Panelled, fly-proof, flush door, glazed and panelled
 - iii. Types of windows: Casement window, bay window, skylight, ventilators.
 - c. **Flooring:** types of floors, fixing of stone, tiles and wooden flooring.
 - d. **Roofs:** types of roofs, sections of RCC flat and pitched roofs.
2. **Interior Construction:** study of the various parts of the interior of a building.
 - a. **Staircases:** Technical Terms, Requirements of a good stair, Classification of stairs, Hand rails and newel posts
 - b. **Panelling:** Reasons for using Panelling, Panelling Materials, Method of Construction
 - c. **Partitions:** Types of Partitions, Advantages of partition, Steps of construction, Areas of Application
 - d. **False Ceiling:** Areas of Application, Types of False Ceilings, Requirements of a Good Ceiling Material

Outcome

On completion of this course students should have a good understanding of the types, processes and principles of construction involved in the building of a structure. Principles of wooden joint their types, use, construction in relation to wooden panelling and partition along with false ceiling, staircases should also be very clear to the students.

Resources

- Building Construction by Sushil Kumar
- Building Construction by Dr. B.C. Punmia
- Time Savers Standards for Interior Design and Space Planning by Joseph De Chiara



6. Building Services

Objective

This course aims at imparting knowledge to the students in the area of interior services such as air conditioning, electrification, lighting, water supply, sanitary installations, acoustics and thermal insulation.

Detailed Contents

1. Water Supply And Drainage

- Water supply: Hot and cold water supply system, types and sizes of pipes; water supply fittings for bathrooms - water closets, sinks, bathtubs, washbasins, bidets, showers, urinals etc.
- Drainage: Principles of drainage, material for drains, traps – their types, function and uses. Shapes and sizes of pipes for drainage system, sanitary fixture-W.C., Wash basins, bathtubs, sinks – their types, sizes etc.
- Simple exercises on preparation of layout plans for toilets and kitchens (both public and residential)

2. Air Conditioning And Ventilation

- Basic definition such as latent heat, ton of refrigeration etc
- Different systems of A.C. central air conditioning and direct expansion systems

3. Acoustic and Sound Insulation

- Characteristics of Audible Sound
- Behaviour of Sound In Enclosures
- Reflection of Sound
- Defects due to reflected sound: echo, reverberation, absorptions,

4. Lifts and Escalators

- History, terminology, types of lifts, appreciation of regulations of lifts and escalators.
- General theory of lifts and escalators, code of practice on safety.

Outcome

Students should be conversant with the basic services used in interiors, their types application and availability.

Resources

- Building Construction by Sushil Kumar
- Building Construction by Dr. B.C. Punmia

SEMESTER-II

1. *Office Design Studio*

Objective

This design studio focuses on designing commercial areas with emphasis on office and institutional design. Students will develop programming and space planning skills unique to these environments through a series of small- to medium-sized projects. Emphasis will be placed on commercial precedents, programming, design process, human factors, building codes, spatial organization, detailing, presentation techniques, office furniture systems, equipment, finishes and lighting.

Detailed Contents

a. Commercial Design Concepts

- Study of commercial space planning, methods of planning, design analysis, and problem-solving.
- Introduction to construction methods and techniques, materials, and furnishings.
- Develop design and production skills, utilizing both manual drafting and designing with the aid of computers.

b. Office Design

- **Understanding an office space:** its purpose, basic components, user and user's needs.
- **Research data relating to office design:** data relating to the anthropometric and ergonomic requirements of an office space as well as the technologies used in a modern office.
- **New trends in Office design:** studying the new trends in the design and layout of offices.
- **Design Projects:** students will complete at least three projects in the course of this subject starting from small to medium sized projects and concluding with a major project which would include designing of all aspects of an office space.

Outcome

On completion of this course students will have the wherewithal to design an office space which takes care of all the requirements of the user and which makes use of materials and technologies appropriate for a modern office.

Resources

- Time Saver's Standards for Interior Design
- Magazines and Periodicals.

2. Furniture Design and Construction

Objective

A study and exploration of furniture design as an expression of art, sculpture, fulfilment of human requirements, and style. Students will be introduced to furniture design and detailing through practical demonstration. Various materials and techniques utilized in the process of furniture design will be explored.

Detailed Contents

a. Introduction to Furniture Design

This course introduces students to the field of furniture design and the design process. Through lectures, class discussions, and exercises students are challenged to develop and apply creative problem-solving skills as well as formulate, communicate, and present a sound basis for their ideas.

b. Material and Techniques

This course focuses on the integration of design and fabrication skills necessary to complete an original project. The course covers the properties and characteristics of various materials used for making furniture such as:

- Wood and wood products
- Metals
- Plastics
- Glass etc

c. Technical Drawing and Visualization for Furniture Design

This course introduces students to the basic conventions and skills of technical drawing and presentation. Students acquire basic literacy in hand graphic skills as well as electronic 2-D visualization tools.

d. Furniture Construction

Students will learn to design and detail a piece of furniture, completing all working drawings necessary for fabrication.

Outcome

After studying this subject, students will be able to design furniture using a variety of materials such as wood, iron and cane etc. students will also be able to prepare detailed working drawings facilitating the fabrication of these furniture items.

Resources

- Time Savers Standards for Interior Design and Space Planning by Joseph De Chiara
- Time Savers Standards for Building Types by Joseph De Chiara

3. *Commercial Design Studio*

Objective

In this course students will further explore space designing for commercial areas with emphasis on retail and hospitality design. Students will be exposed to the specific design requirements of these spaces and the issues and vocabulary particular to these spaces. The students will also learn the importance of a professional portfolio and preparing a résumé.

Detailed Contents

a. Retail Design

Focusing on the functional and aesthetic requirements of retail store design, this course emphasizes building codes and barrier-free design. Design concepts relating to merchandising and presentation will be formulated. Exposure to the elaborate combination of elements and technical specialties necessary to create the “interactive” entertainment aspect of the retail experience.

b. Hospitality Design

Studio based design projects introducing another important specialist field of restaurant & bar design, and issues and vocabulary specific to this area of the design discipline. Restaurant Kitchen & services, Theme oriented designs with detailing to the level of using graphic communication to design menus etc.

c. Portfolio Presentation

A course in the preparation and presentation of a comprehensive interior design portfolio, including résumé preparation, employment interview skills, and goal setting.

Outcome

On completion of this subject students should be able to design for retail and hospitality areas complete in all respects. Along with this they should also be able to compile a portfolio showcasing their best work.

Resources

- Time Savers Standards for Interior Design and Space Planning
- Time Savers Standards for Building Types
- The Retail Store: Design and Construction by William Green
- Retail Design by Otto Riewoldt, Jennifer Hudson
- Bar and Restaurant Interior Structures by Lorraine Farrelly
- Cafes and Restaurants by Laura Andreini

4. *Landscape Design*

This course examines landscape design philosophies and styles, including an introduction to design concepts, materials, and elements. Site visitations to both private and public gardens will be an integral part of teaching this subject.

Detailed Contents

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- a) **Fundamentals of Landscaping:**
- Historical background
 - Principles of Landscape design
 - Elements of design
- b) **Process of Landscape Design**
- Site Analysis
 - Site Assessment
 - Developing an understanding of qualities of exterior spaces,
 - Defining use areas
- c) **Landscaping materials**
- Selection of Plant Species
 - Flowers: Uses and Limitations
 - Use of natural and man-made landscape materials
- d) **Types of landscaping**
- Exterior landscaping
 - Interior landscaping
 - Transitional zones between interiors and exteriors,
 - Xeriscape
- e) **Drawing the Design**
- Site Inventory
 - Design Process
 - Case Studies.

Reference Books:

- Landscape Architecture by Simonds
- Landscape Design: A Practical Approach (5th Edition) by Leroy G. Hannebaum
- Color Drawing: Design Drawing Skills and Techniques for Architects, Landscape Architects, and Interior Designers, 2nd Edition Michael E. Doyle

5. Estimating & Budgeting and Professional Practice

Objective

This course introduces students to methods of estimating and budgeting for interior projects. The following issues will be taught: types of estimates, methods of estimating, principles of material specifications, budgeting etc. Students will have to develop and understanding of specifications and impacts on project costs.

Also in this subject the consideration of office practices and design project management will be studied. Contract documents; associated legal aspects; marketing strategies; professional ethics; staff personnel practices; and career planning will be explored.

Detailed Contents

Specifications

- Definition – objects of specifications – importance of specifications – types of specifications – principles of specifications.
- Writing – typical specifications

Taking Out Quantities

- Meaning of the term – essentials of an estimator – requirement of an estimator
- Methods, units of measurement, modes and units of measurement for different types of trades.
- General rules for measurements

Approximate Methods of Costing

- Estimate and estimating: types of estimates – General principle of the approximate methods of costing – methods of costing for various interior works.

Tenders

- Meaning and necessity of tenders.
- Types of tenders
- Procedure of calling, opening and awarding tenders.

Professional Practice

- Code of practice
- Confidential information for client's employer
- Fees, scale of change, commission and discount, retaining fees
- Conditions of engagements and terms of contracts, alternative agreements, out of pocket expenses, stage of payment, settlement of disputes and arbitration
- Preparation of schedules and progress chart

- Develop effective promotional tools: Advertising press display, classified columns, announcement of change of address, size of name plate etc

Outcome

On completing this course students should be able to take out quantities and make fairly accurate estimates for their design projects. This subject should also prepare them to write exact specifications for their designs.

This subject should expose the students to the real world problems and requirements of running an office and working as an interior design professional. Students should be able to quote an appropriate fee for their services as well as manage finances and accounts.

Resources

Estimating and Budgeting by B. N Dutta

